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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/536,624
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	First Named Inventor	Lorenz Kopp
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
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ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Return Receipt Postcard, Copy of English language translation of International Preliminary Examination Report (4 pages)
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<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	EDWARDS & ANGELL, LLP		
Signature	<i>Christine C. O'Day</i>		
Printed name	Christine C. O'Day		
Date	August 4, 2005	Reg. No.	38,256

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV654381003US, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: August 4, 2005

Signature: *Susan M. Dillon* (Susan Dillon)

Translation

PATENT COOPERATION TREATY

PCT/EP2003/013421



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 12721WO/dr	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP2003/013421	International filing date (day/month/year) 28 November 2003 (28.11.2003)	Priority date (day/month/year) 29 November 2002 (29.11.2002)
International Patent Classification (IPC) or national classification and IPC B05B 1/20		
Applicant ATOTECH DEUTSCHLAND GMBH		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>6</u> sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 18 June 2004 (18.06.2004)	Date of completion of this report 13 December 2004 (13.12.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/013421

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
pages _____ 1-18 _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☒ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages _____ 1-31 _____, filed with the letter of _____ 25 November 2004 (25.11.2004)
- ☒ the drawings:
pages _____ 1/4-4/4 _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/EP 03/13421

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-31	YES
	Claims		NO
Inventive step (IS)	Claims	1-31	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-31	YES
	Claims		NO

2. Citations and explanations

Novelty, inventive step and industrial applicability

1. The invention defined in claim 1 satisfies the requirements of novelty, inventive step and industrial applicability (PCT Article 33(2) to (4)).
2. Since none of the documents cited in the search report or acknowledged in the introductory part of the description indicates all the features of independent claim 1, the subject matter of claim 1 is novel.
3. Given a nozzle arrangement as per D1, a person skilled in the art obtains no prompting from the documents cited in the search report as to designing the housing and the fluid channel situated therein as per the characterising portion of claim 1. The measure whereby the housing (2) is made of plastic and that on or in the nozzle arrangement there is at least one reinforcing portion (4) made of metal which runs in the longitudinal direction of the nozzle arrangement, and whereby an elongate insert (3, 3') is arranged in the nozzle arrangement having a plurality of distribution openings (7) arranged at

a distance from one another in the longitudinal direction, such that the fluid channel (5) defined by the insert (3, 3') is connected via the distribution openings (7) to the at least one fluid discharge opening (8) so as to supply the treatment fluid from the fluid channel (5) via the distribution openings (7) to the at least one fluid discharge opening (8), is the result of a step which is not a logical development of the cited prior art. The nozzle arrangement as per claim 1 therefore involves an inventive step.

4. The subject matter of claim 1 is functional and can be manufactured and is therefore also industrially applicable.
5. Dependent claims 2 to 31 contain advantageous and non-obvious developments of the nozzle arrangement according to claim 1 and therefore likewise meet the requirements of novelty, inventive step and industrial applicability (PCT Article 33(2) to (4)).

Certain defects in the international application

6. The invention is not indicated in the description in a manner consistent with the claims (PCT Rule 5.1(a)(iii)), since page 3 still contains a reference to the original independent claim 5.